

### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application:

1. (Currently Amended) An anode with a 2450MHz resonance frequency comprising:

a cylindrical anode body with an inside diameter in a range of 32.5 to 34.0 mm;

~~a total of ten vanes~~ a plurality of vanes fitted to an inside circumferential surface of the anode body in a radial direction, the plurality comprising at least ten; and

~~an inner strap and an outer strap provided to both of an upper surface and a lower surface of each vane~~ inner straps and outer straps positioned at opposite sides of the vanes, ~~a distance of~~ a distance between the inner strap and the outer strap being in a range of 0.8 to 1.2mm, and each one of the inner strap and outer strap being in contact with every second vanes vane for alternate electrical connection of the vanes alternately.

2. (Currently Amended) The anode as claimed in claim 1, wherein the anode body and vanes are formed as a single ~~one unit for simplification of a fabrication process.~~

3. (Original) The anode as claimed in claim 1, wherein the anode body and vanes have the same thickness.

4. (Currently Amended) A magnetron with an energy efficiency of higher than 70% comprising:

an anode with a 2450MHz resonance frequency including;

a cylindrical anode body with an inside diameter ranging 32.5 ~ 34.0 mm, a ~~total of ten vanes~~ a plurality of vanes fitted to an inside circumferential surface of the anode body in a radial direction, the plurality comprising at least ten; and an ~~inner strap and an outer strap provided to both of an upper surface and a lower surface of~~ inner straps and outer straps positioned at opposite sides of the vanes, a ~~distance of~~ a distance between the inner strap and the outer strap being in a range of 0.8 to 1.2mm, and ~~each~~ one of the inner strap and outer strap being in contact with every second ~~vanes~~ vane for alternate electrical connection of the ~~vanes alternately~~;

an antenna attached to one of the vanes for transmitting a high frequency energy generated at the anode body to an exterior; and

a helical filament in an inner central part of the anode.

5. (Currently Amended) The magnetron as claimed in claim 4, wherein the anode body and vanes are formed as a single ~~one unit for simplification of a~~ ~~fabrication process~~.

6. (Original) The magnetron as claimed in claim 4, wherein the anode body and vanes have the same thickness.